

IN THE CLAIMS:

1-93. (cancelled).

94. (previously presented) A vaccine comprising an isolated recombinant PMPE polypeptide comprising a polypeptide encoded by a nucleic acid molecule comprising the nucleotide sequence of SEQ ID No.: 1 fused to a nucleic acid molecule encoding histidine affinity ((H)<sub>6</sub>) domain.

95. (currently amended) A vaccine comprising an isolated recombinant PMPE polypeptide comprising ~~an~~ the amino sequence of SEQ ID No.: 2 fused to an amino acid sequence comprising a histidine affinity ((H)<sub>6</sub>) domain.

96-98. (cancelled)

99. (currently amended) The vaccine of claim ~~94-95~~ 94 or 95, further comprising one or more adjuvants or immunostimulatory compounds.

100. (currently amended) The vaccine of claim ~~94-95~~ 94 or 95, wherein the one or more adjuvants or immunostimulatory compounds are selected from the group consisting of alum, MLT, QS21, MF59, CpG DNA, PML, calcium phosphate and PLG.

101. (currently amended) The vaccine of claim ~~94-95~~ 94 or 95, comprising one adjuvant or immunostimulatory compound.

102. (currently amended) The vaccine of claim ~~94-95~~ 94 or 95, comprising two different adjuvants or immunostimulatory compounds.

103. (currently amended) The Vaccine of claim ~~94-95~~ 94 or 95, additionally comprising one or more immunogens selected from the group consisting of a lipid, lipoprotein, phospholipid, lipooligosaccharide, protein, attenuated organism and inactivated whole cell.

104. (previously presented) The vaccine of Claim 103, wherein the one or more immunogens are a DPT vaccine, a HMWP of *C. trachomatis*, a MOMP of *C. trachomatis*, or an entire organism, or subunit therefrom, of *Chlamydia*, *Neisseria gonorrhea*, HIV, *Haemophilus influenzae*, *Moraxella catarrhalis*, *Human papilloma virus*, *Herpes simplex virus*, *Haemophilus ducreyi*, *Treponema pallidum*, *Candida albicans* or *Streptococcus pneumoniae*.

105. (previously presented) The vaccine of Claim 103, wherein the additional immunogen is another protein of *Chlamydia*.

106. (previously presented) The vaccine of Claim 103, wherein the additional immunogen is HMW (High Molecular Weight) protein of *Chlamydia trachomatis*.